THE MINES OF ARIZONA

This department is under the di rection of Mr. W. E. Defty, the well known mining engineer, who will carefully scrutinize all matters relating to mining in order that only reliable information regarding legitimate en shall find a place here. legitimate enterprises

The Republican would be pleased to receive information from any part of the state regarding the development of the mining in-All communications should be addressed: Mining Department, Arizona Republican.

Settlement of the Strike

The strike at Miami and Globe district we are pleased to state has been

will work on a sliding scale.

There is to be no discrimination against any of the men on account of the strike.

The neale is as follows: Machinists, electricians, carpenters and boilermateria 24.25 Miners, minimum wage,

Mostling engineers, with copper at to sting engineers, with copper at tions amounting in some cases to or 452 flasks, valued at about \$21,350. In gold production in 1914, followe 24.50 on double drum; firemen \$3.75, over 50 per cent, are to become efoffers \$2.59, pumpmen \$4.00. With fective on one day's notice. copper at 14 cents they will receive a raise of 15 cents, and with copper at 15 cents another ten cents a day all be added to the wages.

mine during December was \$115,000 some other portion. One takes their gold. This wonderful property paid choice."

So per cent on the par value of the Wa looked around for the official stock, in dividends last year and it hangman of the hotel but he couldn't is claimed still has at least ten years him to load his gun. of the same enormous dividends blocked out and in sight.

Railroad to the Mascot

has been expended. The railroad is lows: grade ores already blocked out.

total disbursements for the year 1914 ties of the deposit is fully rewill amount to \$14 per share, as com-pared with \$16.50 in 1913, \$15 in 1912. The domestic production of quick and \$12 for each of the preceding silver in the United States in 1914.

Shattuck & Arizona

declared a dividend does not neces- A comparison of these figures com- \$4,000,000 than that of 1913. Mr. sarily imply the company has re- piled by H. D. McCaskey, of the sumed regular quarterly dishurse- United States Geological Survey, with logical Survey, who is authority for

pected future dividend action will be verned by conditions. The present dividend is 50c per share payable February 20th to stock of record Jan-This dividend is the first since July last when 50c was also

U. S. Geographic Surveys surveys ompleted by the United States Geoorical survey in the year ending The total area topographically sur-

Good, Just So!

They say the mining days are go-The numers and hoisting engineers ing original. It comes nearer being ever realizes in any other line.

duced

Material reduction in the rates on portation, indicate high prices ores, concentrates and sulphates from throughout the war, at least. with copper at 13 cents; \$3.65 all points on the Southern Pacific and outh copper at 14 cents; \$3.75 with Arizona Eastern to Globe and Mignificant were ordered last week by the cor-

only hotel that I ever saw have minexal on its bill of fare." We bit, "Well," he says, "they

The clean up for the Tom Reed describe some portion of food or (ore)

has paid continuously for several be found and the Coloradian had left years from 68 to 72 per cent and it before we could J. C. Adams and tell

Regarding the article on this sub-ject last week the large deposit Construction of a railroad to this spoken of has been known for a property near Willcox, Cochise coun-ty, was commenced last Wednesday, located in recent years. We were The property is about twenty-five cognisant of it and an article appearmiles from Willicox and has been un-der development for a number of columns of The Republican on Februyears, and a large amount of money ary 16, 1913, a reprint of which fol-

mainly constructed to facilitate the The present company acquiring the shipment of the large tonnage of low property has been formed mainly to get all the holdings together, survey and perfect the titles and induce cap-Phelps-Dodge Co. Declare Dividends ital to invest for the purpose of ship The dividends declared by the ping the material as a fertilizer and Phelps Dodge company a few days eventually to erect machinery and ago was \$1 a share more than was mankfacture products of which the paid by the company three months mineral forms an important part. ago, but \$1.50 a share less than was There is little doubt but what suffipaid by the company for the corres- cient capital will be forth coming as ponding quarter a year ago. The soon as the important and possibili-

for the year at San Francisco (ap-dition, inasmuch as early returns ineastern papers assume, the survey's statistics of production these figures, adds that the produc The company had the money to spare of 1913, shows a decrease of 3,645

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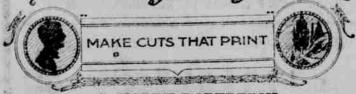
Kirkman trees have been standard for reliability in California for nearly thirty years. We wish to serve the planters here as they have in California. We believe that the horticultural future of Arizona is bright indeed, and we intend to do our part in propagating and distributing high class nursery stock of the right varieties to help bring horticulture to the first place in the industries of Arizona.

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value for the output of 1914. There were 33 mines and prospects producing quicksilver in 1914, of which In Montana the mine yield increas-

in California

The domestic quicksilver market was and North Moccasin mines enjoy-unfavorable and the prices very low ed an active year.

Nevada mines showed a decrease rise total area logographics to that Francisco: January, \$39,25; February in New Mexico the mine produc average prices were recorded in San 40 per cent. date was 1,197.782 square miles, or and March, \$39; April, \$38.90; May, tion increased nearly \$390,000; but 39.6 per cent of the entire country. \$39; June, \$38.60; July, \$37.50; in Oregon the output declined about August, \$89; September, \$76.25; Oct. tober, \$53, and November, \$55. It is In South Dakota the mine output estimated that the average for Dec-was normal. The great Homestake ng to return, that the boom is on ember will be about \$53. The average mines trief we are pleased to state has been my to return, that the boom is a sember will be about \$43. The average mines and mills were operated annuably settled and the men returned to work has Monday. After several conferences between the men and good news. Wealth from the hills is lotal productive capacity of the good news. Wealth from the hills is lotal productive capacity of the good news. The Golden Reward, Mogul, of conferences between the men and good news, weath product the men and good news, weath product the following sliding scale clean and it has the added virtue of this country as at present the men and clean and it has the added virtue of clean and clean and it has the added virtue of clean and clea and although high prices may bring active. something for nothing than this world spurts of activity and new ore bodies present improbability of excessive im-

Imports and Exports.

poration commission. These reductionally, are estimated at 33,900 pounds, valued at \$43.574. The imports entered for consumption are estimated Arizona and Montana have both Mineral on the Menu at the Hotel for 1914 at 685,604 pounds, or 9,140 passed Bigh, however, which dropped Adams

Two of us were conversing in the 171,653 pounds, valued at \$75,361, im
The first place in 1914. As stated in the Geological Survey Press Bultaborers, 32.60 per day.

The Copper Queen, Calumet & Ariona announce and Shattack Arizona announce are shattack Arizona announce and Shattack Arizona annou indicate steadily declining imports in unless the great low grade deposits the later half of the year it has been of the Joneau district, in Alaska, generally understood that the nations now being prepared for large yield, at war have not permitted exports-tion of metals, but it has been re-eries are made cheewisers, the future flasks each have been received at decline from the high figures of re-New York from Italy since the outnaturally tend to lower domestic rofits and may prevent American re-examination, of the rise in price they have been counting upon to offset the long eriod of low prices and depression through which they have recently passed. Of the other European proucers Austria is engaged in conflict and the ldrin mines (controlled by he government) may be unable to xport to this country, even through entral Italian ports. The great Spanh mines of Almaden are controlled y English capital and normally send heir metal to London for distribu-Whether any large amount of this supply will be permitted to present conditions remains to be seen Even if the embargo upon exportathat London prices have risen also, that danger to mavigation is by ne means removed, and that marine inurance must continue to increase osts of transportation. Large imorts of foreign metal are therefor

not expected at the present outlook.
Increase in Gold Mining The gold mining industry of the was 16,568 flasks of 75 pounds each, United States had a prosperous year valued at the average domestic price in 1914 and regained its normal con-The Shuttuck & Arizona has just proximately \$49 a flask), at \$811,832. dicate an output greater by nearly H. D. McMCaskey, of the U tion in 1913 was lower than f eral years past and even in 1914 the output was considerably below that of any year in the period 1908-1912, when the high-water mark was reached. For 1914 the preliminary figures of the United States Geologial Survey and the Bureau of the Mint indicate a total gold yield of

In Alaska the otput of gold increased about \$300,000, the industry was generally prosperous, and a large amount of dead work contined to be done preparatory to increased output from lode mines. The placer yield was about \$10,700,000, or the same as in 1913, and increases made in the Ruby, Seward Peninsula, Iditarod, and Hot Springs districts offset declines in output from Fairbanks and other camps. Abundant rainfall favored placer mining. About 26 gold-lode mines produced about \$5, 100,000 in 1914, against \$4,814,813 from 30 mines in 1913. Juneau, in luding the Treadwell and the great ow Alaska-Juneau Alaska-Gastinou, and other mines, continued to e the most important lode district. in Arizona the mine production of rold increased about \$500,00 in 1914. The chief producers, the Tom Reed, Gold Road, Vulture and Common wealth mines, were active and pro uced more than half the total yield the remainder coming largely from

In California the mines produced over \$700,000 more than in 1913. The Valley, Mother Lode, other quartz mines continued active producers at depth, and the placer utput, especially from the dredging operations, was again large. The dredges alone produced 49 per cent of the total gold, yield and over 90 per cent of the total placer out-

Colorado mines increased their yield by over \$1,500,000 above that of 1913, the greater part of this in crease, or \$1,143,000, being made in the Cripple Creek district, where the mines and mills had another active year. Lake County (chiefly Leadmade an important increase in gold output also, and smaller increases were made in Ouray and Polores counties of the San Juan region, and in Boulder, Chaffee, Clear Creek, Summit, and Eagle region. The gold yield declined somewhat in San Juan, San Miguel and La Plata counties, of the San Juan region, and in Mineral County

In Idaho the -mine output decreas-

mine, but the dredges in Lembi and Bolse counties had a prosperous year, were about \$113,513,000 to Canada, ed over 14 per cent and the total to England, and were mainly in were 24 producers, of which 18 were production was about \$4,000,000, or United States coin and fine bars, more than for any year since 1996. —U. S. Geological Survey. The placers and the Southern Cross

but upon the outbreak of the Euro- of about 4 per cent, or over \$400,000 pean war the prices jumped and pro-ducers in a position to profit were encouraged to make their maximum output. The average San Francisco decrease was offset by increased domestic market price was \$40.23 a yield from Tonopah, Fairview, Wonflask of 75 pounds for the year 1912, der, Round Mountain, National, against \$42.05 in 1912 and \$46.01 in Seven Troughs, and other camps At 1911. In 1914 the following monthly Manhattan the output declined about

In South Dakota the mine output and mills were operated

In Itah the mine output of gold may at any time be discovered, the decreased about 7 per cent, or over present outlook is not for excessive \$250,000, in 1914. The yield was Ore Rates to Globe Materially Re- production. These facts, and the principally from copper orest. The output from true gold ores has de clined since the suspension of operaions at Mercur. The Philippine production has steadily increased Exports of quicksilver from the and in 1914 passed the \$1,000,000 United States for the calendar year mark.

California again retains first rank in gold production in 1914, followed da, and South Dakota, as in 1913 orted that two lots of about 1,000 comestic gold yield may show further reak of the war. Such importations will be made, for much territory remains for the patient examination or roducers from taking full advantage of such discoveries is necessarily beyond prophecy.

According to estimates from the records of the Bureau of Foreign and Domestic Commerce, the imports in 1914 comprised gold valued at \$58. 122,000 and the exports were valued at \$242,711,000. The excess of exports ever imports was therefore about \$184,589,000, against an excess of \$28,093,778 in 1913. The gold import-Hon, and coin; \$35,759,000 came from Canada and the remainder chiefly

Points of Interest Near Flagstaff Grand Canyon
Grand Canyon
Extinct Volcanoes 18 miles
Lava Reds
Ice Caves
Prehistoric cliff dwellings 10 miles Cave dwellings 10 miles Oak Creek Trout Stream 18 miles Montezuma's well 50 miles San Francisco peaks 12 miles
Cave dwellings
Oak Creek Trout Stream 18 miles
Montezuma's well50 miles
San Francisco peaks 12 miles
(Elevation 13,900 feet.)
Altitude of Flagstaff 6907 ft.
Altitude of Flagstaff 6907 ft.

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flasks in quantity and of \$1,329 in the small output of the De Lamar South America. The exports, which \$92,323,000 to France, and \$31,116,000

the promoter. Often you will find him masquerading under the guise of a will be hundreds, perhaps thousands of new promotions. Already the vanguard is with us. We would issue word of warning to our readers anent promotions.

For every good, honest and legitimate romotion, there are a thousand spurous ones. It is not at all easy to de tect the wheat from the chaff. The pitfalls are well laid, more especially if the broker with whom you do business is promoting something. He is very carrying standard brands of goods, offes you something "just as good."

Very often the promoter, to sell his vares-and make his profit-will go ut of his way to derogate the value of proven investments of sterling worth to induce you to dispose of them, in order that you may realize funds to buy his wares. He is cunning, and may catch ou unawares,

We, therefore, issue a word of warning to mining security buyers, and present holders of securities. Do not buy a promotion until you have examined ate, until you have investigated the men behind the promotion, until you have satisfied yourself that it is hones in every respect.

The editor of The Outlook offers the benefit of long experience in mining se urities affairs to the readers of this publication, on the subject of any prothat you may overlook. The "lokers'

Inspiration Co. Spent \$6,674,286 in Development and Construction Work at Concentrator City up to October 31, 1914

BOSTON, Mass., Dec. 31.-The Boson News Bureau says: The Inspiration onsolidated Copper company has spent in excess of \$6,000,000 in develop ment and construction. Up to Oct. 21 it had actually expended \$6,674,286, as

Property \$ 537,873 Mine equipment 304,762 General equipment 185,865 These figures have been given the ew York stock exchange in connec with listing of the company

Funds already provided will be amplo complete development work and puthe company on an operating basis which it is believed will not be "more than two months from the end of 1914 as originally estimated," This would put the company in the producing ranks during the first quarter of the new year.

Churn drilling has shown the fol

Tons G	Pet.
Original development45,000,000	2,00
Developed, 1913 6,500,000	1,39
Originally developed but not reported	1.26
Total \$9,643,000	1.64

Practically all the improvements and construction for which the new bonds were issued have been completed. Of the \$4,500,000 convertible bonds offered stockholders for subscription, \$1.697.606 were taken by them and the balance \$2,802,400 were taken up by the underwriters, J. P Morgan & Co.

On Oct. 31 the company had cash totaling \$2,195,231, while there was due as third installment on bonds \$825,776 and due from sundry debtors \$439,414. Current liabilities totaled \$399,456.

Tungsten Ores in 1914

The production of tungsten ores it the United States during 1914 is esimated as equivalent to about 990 short tons carrying 60 per cent of tungsten trioxide (WO3), according to preliminary figures collected by Frank L. Hess, of the United States Geological Survey, which are thought to be accurate within 5 per cent. This output is the smallest sine 1908, when only 671 tons was produced. In 1913 the production was 1,537 tons, of which 953 tons was ferberite from the Boulder field in Colorado, a quantity almost equal to that of the whole country in 1914. but the production, of the Boulder field in 1914 was only 466 tons. Prices ranged from \$6.50 to \$9 a

unit" (that is, so much a short ton for each per cent of tungsten trioxide), depending on the quality and quantity of the ore and the urgency of the buyers' and sellers' needs, Of the various tungsten minerals. the one produced in largest quantity was scheelite, from the Atolia district, in the Mohave Desert, Cal. A little scheelite was also mined in the Deep Creek Mountains, Utah, Small quantities of both wolframite hubnerite were shipped from Arizona and hubnerite was produced on Patterson Creek, in the Blue Wing dis trict, Idaho. Some wolframite was produced near Penasco, N. Mex., and

Ivanpah, Cal. The more easily mined tungsten ores which lie close to the surface are now largely worked out in the older districts, and mining is thus becoming more difficult and expensive; this is especially hard on the

in the Clark Mountain district, near

The European war disturbed tungten mining, as it did most other Removes Tan, Pimples, Freckies, Moth Patches, and with the reduced output, but to do with the reduced output, but the imports of ore trigsten, and ferrotungsten, as shown by figures collected by the Bureau of Foreign and the test of 66 years, and the see harmless we taste to be sure it is properly made. Accept no conserved of similar name. Dr. L. A. Sayre and to a lady of the hutton (a patient):

"As you ladies will use the m, I recommend to me, as the least harmful of all the skin preparations." At Druggists and Department stores.

Type I Manifes & San Propt. 37 Great lines St. E.I.4. ed over \$250,000, owing largely to Ford I Regions & Son Props. 37 Great Mones St. M.T. & dropped to 192 tons, valued at \$219,-

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\$10.00

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sed, srem, gravsed, srem, grav-

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